Pc-Check® Windows® Diagnostic Software

Pc-Check Windows challenges the widest testing landscape with Windows and WinPE based testing, dedicated to all your PC assembly, integration, services, installations, repair and refurbishing.

Unreliable testing of computers cost companies and technicians valuable time and money. Inaccurate test results impact operations, leading to more technical support calls, unnecessary rework, product returns and customer dissatisfaction.

Pc-Check® Windows® has a testing advantage with Windows-based computers. Fully compatible with Windows 10 and UEFI hardware, booting WinPE, ensuring components from a PC and Mac® are reliably validated in the environment in which they are used. Pc-Check Windows computer diagnostics give you the stress testing you expect, but more to the point, they give you absolute knowledge of hardware conditions – results you can count on. Proven diagnostics, capable of assisting all sizes of companies and skill sets, loads of testing features and unlimited ways of using them.

Pc-Check Windows is the answer to solving your testing dilemmas – “do I release, repair, repurpose, refurbish or replace?”. Enhance your service reliability and computer quality, decrease technical support telephone calls, and improve customer satisfaction and confidence. Pc-Check Windows finds the hardware faults that other test products can’t or won’t reveal.

### Powerful, testing under Microsoft® Windows®

- Test all Windows dependent hardware: such as webcams, 3D Graphics, wireless network devices, and more.
- Test UEFI enabled hardware in Windows®
  - Full UEFI testing on all the latest Windows® PCs, 64Bit hardware. No need to disable Secure Boot.
- Scripted or selected: System Stress test and Burn-in test, Duration, any Number of passes
  - Test hardware parts, as specialist test groups or with unlimited scripting capacities. **Total control of your diagnostic process.** Reveal hard-to-find intermittent errors.
- Test the fullest range of installed components and storage
  - Unlimited Memory DIMM reporting; and 2-Exabytes drives; plus CPU packages to 1024 to 256 core and more in Windows.
- Unattended testing, launch scripts automatically, upon startup
  - Test PCs without users involved, **no mistakes in tests deployed,** consistent, repeatable results.
- Create, and test from self-booting WinPE media
  - Test PCs, even Macs before you install the operating system.
- Remotely test PCs through Windows® Desktop Connection (site license enabled)
  - Test PCs from the server or helpdesk. Ideal for remote PC support.
Use Windows®-based tests to fully validated UEFI enabled components as well as non-UEFI hardware

**Wireless Network Access Point**

**Session Log of Test Results**

**Comprehensive System Information**

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<tr>
<th>Network Adapter</th>
<th>Intel Corporation Intel(R) Wireless WiFi Link 4965AGN</th>
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**29 Test Groups**

165+ tests

300+ select tests

**Test PCs and Macs outside of Windows and Linux® with USB Booting WinPE**

‘WinPE Image Creator’ application prepares custom, self-booting WinPE test media.

*Use Windows Preinstallation Environment (WinPE) with Microsoft OEM / SDK license*

**Variable Media and Settings**

Create WIM, ISO and WinPE Bootable USB.

Utilize Microsoft ADK version 8.1 /10.

Customize image settings for image type, region, and more.

Unlimited script and image builds.

**Create and Automate Test Tools**

Create different diagnostic test routines for manufacture, refurbishing, service and support.

Fully networkable, allows deployable and remote testing sessions.*

Network drive logging for connectivity and distribution of test result files.

**Maximize profits by reducing hardware return costs**

- Reduce asset identification, assembly, upgrade, and repair test workloads.
- Reduce returns and repairs.
- Reduce support calls.
- Increase profitability by improving PC reliability during system manufacturing integration, installation, upgrading and servicing, repairs and refurbishing.

**Control and contain errors**

- Reveal hard-to-find intermittent errors.
- Log faults and unreliable computers.
- Deploy tests, operations’ wide, for maximum consistency.

**Increase throughput by reducing human errors**

- Standardized test scripts control unauthorised users and test usage.
- Remotely coach technical support with simple Pc-Check test script experience.

**Microsoft Windows Support**

- Windows® Preinstallation Environment (WinPE- 32bit and 64bit editions) with Microsoft OEM license.
- Server 2003/2008(R2)/2012(R2) for remote deploy* and PC Builder license.
- UEFI enabled hardware.
- Standalone, bundle, deployable diagnostics.

*Site License required.*
## Diagnostic coverage for all major hardware groups in a native UEFI pre-boot, Self-Boot and Microsoft Windows or Microsoft Windows Preinstallation Environment.

### Native UEFI Diagnostics
- **Network**
  - Internal Ping Test
  - External Ping Test
  - Register Test

- **Hard Drives**
  - S.M.A.R.T. Immediate
  - S.M.A.R.T. Short Self Test
  - S.M.A.R.T. Conveyance
  - S.M.A.R.T. Extended Self Test
  - Butterfly Seek
  - Random Read
  - Linear Read
  - Non-Destructive Write
  - Internal Cache

- **Solid State Drives**
  - Linear Read
  - Random Read
  - S.M.A.R.T. Immediate Test

- **System Block Devices**
  - Basic Functionality
  - Comprehensive Functionality

- **Processor**
  - Core Instruction Set
  - Floating Point Instruction Set
  - SSE Instruction Set
  - SSE2 Instruction Set
  - SSE3 Instruction Set
  - SSSE3 Instruction Set
  - SSE 4 Instruction Set
  - AVX Instruction Set

- **Optical**
  - Basic Functionality
  - Comprehensive Functionality
  - Butterfly Seek

- **USB**
  - Quick Test
  - Max Bit Stuffing
  - NRZI Glitch Zero
  - NRZI Oscillation Type 1/2/3/4
  - Max Disparity
  - Random Data

- **Motherboard**
  - Memory Buses
  - PCI Buses
  - Disk Buses
  - Non-Volatile Storage
  - Real Time Clock

- **Monitor**
  - Panel Test

### Self-Boot Legacy Diagnostics
- **Memory**
  - Module Seating
  - Inversion Tree
  - Stride Isolation
  - Small Block Stride
  - Chaotic Addressing
  - Block Rotation
  - Microtopology
  - Microtopology (Quick)
  - Microtopology (long)

- **Cache Memory**
  - Inversion Tree
  - Stride Isolation
  - Chaotic Addressing
  - Block Rotation
  - Microtopology

- **Hard Drives**
  - Read Quick/Standard/Full/Custom
  - Read Verify Quick/Standard/Full/Custom
  - Non-Destructive Write Quick/Standard/Full/Custom
  - Destructive Write Quick/Standard/Full/Custom
  - S.M.A.R.T. Immediate
  - S.M.A.R.T. Short
  - S.M.A.R.T. Extended
  - S.M.A.R.T. Conveyance

- **Processor**
  - Core Instruction Set
  - AMD64 Core
  - Intel64 Core
  - Coprocessor Core
  - Known Design Faults
  - 3DNow! Extensions
  - MMX Extensions
  - SSE (SIMD) Extensions
  - Multi Processor Symmetry

- **Motherboard**
  - DMA Controller
  - System Timer
  - Interrupt Controller
  - Keyboard Controller
  - PCI Bus
  - Real-Time Clock Chip

- **Trusted Platform Module**
  - Self Test
  - Subversion Attempt

- **Input Peripherals**
  - Keyboard
  - Mouse

- **Video Memory**
  - Inversion Tree
  - Stride Isolation
  - Small Block Stride
  - Chaotic Addressing
  - Inverse Mesh
  - Block Rotation
  - Microtopology

- **Serial Ports**
  - Line Control
  - Handshake
  - External Loopback
  - Internal Loopback
  - FIFO
  - Divisor Clock

- **FireWire**
  - Controller Test

### Firmware
- **ACPI**

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### Network
- Internal Loopback
- External Loopback
- Controller

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### Audio
- Real-time PCM
- Streaming PCM
- SPDIF Run DMA

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### Optical
- Transfer
- Random Seek
- Test Disc Read
- Laser Refocus

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### ATA Controller
- Parallel
- Serial
The following test groups or tests require a full Windows environment.

- Video
- Biometric Devices
- Capture Card®
- Network Interface tests for wireless network interfaces
- System Sleep Test
- Power Sensor
- Constant Sensor
- Power Sensor
- Voltage Core Detection
- System Temperature

Tests in blue are not compatible with Microsoft Windows Preinstallation Environment (WinPE).

Mac® Boot Camp® drivers required in WinPE or use Pc-Check® WinPE Image Creator build tool without drivers (all tests non-native, Intel Architecture only).
Who Uses the Pc-Check® Diagnostic Software Suite?

Solutions for an ever changing landscape...

Testing PCs has financial reward. Starting with a series of simple test steps, you gain immediate cost savings. Computer manufacturing and system integrating rely on diagnostics to form standard test practices. Repair, services and support are blending with field technicians, backing MSP’s who remotely manage all varieties of computers. Critical assessment of systems situated publicly: government, military, education, healthcare, as well as private verticals expect compliant, running systems. Refurbishing has taken off, extracting re-workable components to balance a broad ecosystem, recycling where they can’t. Everywhere, demand for reliably running PCs is required and expected.

Ensuring reliability requires quality testing. The Pc-Check diagnostic suite takes on the widest testing landscape, instilling quality, combining bare-metal UEFI and legacy testing, plus Microsoft Windows/WinPE too. The end result: components are reliably tested and validated independent of the operating system [and] within the Microsoft Windows environment whether new or old devices. Proven diagnostics, capable of assisting all sizes of companies and skill sets, loads of testing features and unlimited ways of using them. Testing brings reward.

Flexible user and licensing options to perfectly fit your costs and needs.

Eurosoft (UK) Ltd are dedicated to offering a variety of diagnostic and test management solutions as standalone packages, bundled with systems and services, as well as site licenses of all sizes. Fully commercially supported, and maintained to test the widest range of PC-based hardware, regardless of brand. Whether you are responsible for 1, 100 or 1000+ test stations or have as many technicians at your disposal, the Pc-Check diagnostic suite offers flexible testing solutions, giving you maximum reliability over your entire operation.

Contact us at the locations below to take advantage of a new testing experience today.

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